

**Important:** This degree plan is effective for those starting this degree program in fall 2024 through summer 2025. This degree plan will remain in effect for students who do not break enrollment or who do not change degree programs, concentrations or cognates.

### GENERAL EDUCATION/

#### FOUNDATIONAL SKILLS REQUIREMENTS (42-45 hours)

| Course  |   | Hrs | Sem   | Grade |
|---|---|-----|-------|-------|
| <b>Communication &amp; Information Literacy (12 hours)<sup>1</sup></b>              |   |     |       |       |
| ENGL 101  | Composition & Rhetoric                      | 3   | _____ | _____ |
| _____   | Communications Elective                     | 3   | _____ | _____ |
| _____   | Information Literacy Elective               | 3   | _____ | _____ |
| _____   | Information Literacy Elective               | 3   | _____ | _____ |
| <b>Technological Solutions &amp; Quantitative Reasoning (5-8 hours)<sup>1</sup></b> |   |     |       |       |
| UNIV 101  | Foundational Skills                         | 1   | _____ | _____ |
| MATH _____  | Math Elective (MATH 114 or higher)          | 4   | _____ | _____ |
| _____   | Technology Competency <sup>2</sup>          | 0-3 | _____ | _____ |
| <b>Critical Thinking (5 hours)<sup>1</sup></b>                                      |   |     |       |       |
| RLGN 105  | Intr Bwww/Contemp Moral Issues <sup>3</sup> | 2   | _____ | _____ |
| _____   | Critical Thinking Elective                  | 3   | _____ | _____ |
| <b>Civic &amp; Global Engagement (5 hours)<sup>1</sup></b>                          |   |     |       |       |
| EVAN 101  | Evangelism & Christian Life <sup>3</sup>    | 2   | _____ | _____ |
| _____   | Cultural Studies Elective                   | 3   | _____ | _____ |
| <b>Social &amp; Scientific Inquiry (7 hours)<sup>1</sup></b>                        |   |     |       |       |
| _____   | Natural Science Elective                    | 4   | _____ | _____ |
| _____   | Social Science Elective                     | 3   | _____ | _____ |
| <b>Christianity &amp; Contexts (8 hours)<sup>1</sup></b>                            |   |     |       |       |
| BIBL 105  | Old Testament Survey                        | 2   | _____ | _____ |
| BIBL 110  | New Testament Survey                        | 2   | _____ | _____ |
| THEO 201  | Theology Survey I <sup>3</sup>              | 2   | _____ | _____ |
| THEO 202  | Theology Survey II <sup>3</sup>             | 2   | _____ | _____ |

| Course   |   | Hrs | Sem   | Grade |
|--|---|-----|-------|-------|
| <b>Major Foundational Courses (0-20 hours)</b> |   |     |       |       |
| BUSI 240                                       | Organizational Behavior & Management <sup>4</sup> | 3   | _____ | _____ |
| CSCN 110                                       | Introduction to Computer Sciences <sup>4</sup>    | 3   | _____ | _____ |
| CSCN 111                                       | Programming in C++ Beginner <sup>4</sup>          | 3   | _____ | _____ |
| ENGR 270                                       | Technical Communication <sup>4</sup>              | 3   | _____ | _____ |
| MATH 131                                       | Calculus & Analytical Geometry I <sup>4</sup>     | 4   | _____ | _____ |
| PHYS 201                                       | General Physics I <sup>4</sup>                    | 4   | _____ | _____ |

### MAJOR

| Course                 |   | Hrs | Sem   | Grade |
|------------------------|---|-----|-------|-------|
| <b>Core (42 hours)</b> |   |     |       |       |
| CSCN 112               | Programming in C++ Advanced <sup>5</sup>                | 3   | _____ | _____ |
| CSCN 215               | Data Structures & Algorithms Using C++ <sup>5</sup>     | 3   | _____ | _____ |
| CSCN 230               | Business Data Communications & Networks <sup>5</sup>    | 3   | _____ | _____ |
| CSCN 326               | Database Design & Management <sup>5</sup>               | 3   | _____ | _____ |
| CSCN 340               | Information Security Concepts & Principles <sup>5</sup> | 3   | _____ | _____ |
| CSCN 342               | Computer Architecture <sup>5</sup>                      | 3   | _____ | _____ |
| CSCN 345               | Linux Operating Systems <sup>5</sup>                    | 3   | _____ | _____ |
| CSCN 352               | Windows System Administration <sup>5</sup>              | 3   | _____ | _____ |
| CSCN 355               | Network Architecture, Protocols, & Theory <sup>5</sup>  | 3   | _____ | _____ |
| CSCN 434               | Program Language Design & Comp Theory <sup>5</sup>      | 3   | _____ | _____ |
| CSCN 443               | Operating Systems Design <sup>5</sup>                   | 3   | _____ | _____ |
| CSCN 471               | Software Engineering Management <sup>5</sup>            | 3   | _____ | _____ |
| CSCN 481               | Computer Science Practicum I <sup>5</sup>               | 3   | _____ | _____ |
| CSCN 482               | Computer Science Practicum II <sup>5</sup>              | 3   | _____ | _____ |

| Course                    |  | Hrs | Sem   | Grade |
|---------------------------|--|-----|-------|-------|
| <b>Cognate (12 hours)</b> |  |     |       |       |
| BUSI 427                  | Team Dynamics <sup>5</sup>                       | 3   | _____ | _____ |
| CSCN 310                  | Web Programming in HTML <sup>5</sup>             | 3   | _____ | _____ |
| CSCN 315                  | Front-end Programming in JavaScript <sup>5</sup> | 3   | _____ | _____ |
| CSCN 375                  | Human-Computer Interaction <sup>5</sup>          | 3   | _____ | _____ |

| Course   |  | Hrs | Sem   | Grade |
|--|--|-----|-------|-------|
| <b>Quantitative Studies Courses (13 hours)</b> |  |     |       |       |
| MATH 128                                       | Precalculus with Trigonometry <sup>6</sup> | 4   | _____ | _____ |
| MATH 211                                       | Introduction to Statistical Analysis       | 3   | _____ | _____ |
| MATH 250                                       | Introduction to Discrete Mathematics       | 3   | _____ | _____ |
| MATH 350                                       | Discrete Mathematics                       | 3   | _____ | _____ |

| Course                                |                                   | Hrs | Sem   | Grade |
|---------------------------------------|-----------------------------------|-----|-------|-------|
| <b>Lab Sciences Courses (4 hours)</b> |                                   |     |       |       |
| _____                                 | Lab Science Elective <sup>7</sup> | 4   | _____ | _____ |

| Course  |       | Hrs   | Sem   | Grade |
|---|-------|-------|-------|-------|
| <b>Technical Elective Courses (7 hours)<sup>8</sup></b> |       |       |       |       |
| _____   | _____ | _____ | _____ | _____ |
| _____   | _____ | _____ | _____ | _____ |

### Notes

All applicable prerequisites must be met

<sup>1</sup>Refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened) before enrolling in foundational skills requirements

<sup>2</sup>All students must pass the Computer Assessment OR complete applicable INFT course; refer to [www.liberty.edu/computerassessment](http://www.liberty.edu/computerassessment) for more information

<sup>3</sup>Students transferring in 45 or more UG credit hours will have the requirements of RLGN 105 & EVAN 101 waived; Students transferring in 60 or more UG credit hours will also have the requirements of THEO 201 & THEO 202 waived

<sup>4</sup>Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened)

<sup>5</sup>Students are required to take these courses residentially in support of ABET accreditation. Exceptions may be made on a case by case basis, and require ABET coordinator review and Department Chair approval.

<sup>6</sup>Any student entering the major directly into MATH 131 will require a 4 credit MATH Elective to substitute in place of MATH 128 (for example, MATH 132 may sub for credit)

<sup>7</sup>Choose any science course which includes a lab component. If choosing a Physics course, it must be PHYS 202 and 202L, or a higher level Physics course. PHYS 101 and 103 are not allowable.

<sup>8</sup>Choose from: BUSI 300, 301, 313, 424, 427, any 200-400 level Computer Science course, any 200-400 level Engineering course (except ENGR 210), or any Advanced Math course (must be MATH 132 or higher) not already required by the degree.

Suggested Course Sequence on second page

### Graduation Requirements

120 Total Hours

2.0 Overall grade point average

30 Hours must be upper-level courses (300-400 level)

Grade of 'C' Minimum required for all courses in the major, quantitative studies, lab science, technical elective, and major foundational sections

25% Of major, core, and cognate taken through Liberty University

30 Hours must be completed through Liberty University

Grad App Submission of Degree Completion Application must be completed within the last semester of a student's anticipated graduation date

CSER All requirements must be satisfied before a degree will be awarded

## SUGGESTED COURSE SEQUENCE

### FRESHMAN YEAR

| First Semester  |          | Second Semester                                       |          |
|---|----------|---|----------|
| ENGL 101  | 3        | BIBL 105  | 2        |
| EVAN 101  | 2        | UNIV 101  | 1        |
| RLGN 105  | 2        | Information Literacy Elective <sup>1</sup> [CSCN 111] | 3        |
| Information Literacy Elective <sup>1</sup> [CSCN 110] | 3        | Math Elective <sup>1</sup> [MATH 131]                 | 4        |
| Technology Competency <sup>2</sup>                    | 0-3      | CSCN 230  | 3        |
| MATH 128 <sup>3</sup>                                 | 4        | Communications Elective <sup>1</sup> [ENGR 270]       | 3        |
| CSER  | <u>0</u> | CSER  | <u>0</u> |
| Total   | 14-17    | Total   | 16       |

### SOPHOMORE YEAR

|          |          |   |          |
|----------|----------|---|----------|
| BIBL 110 | 2        | Social Science Elective <sup>1</sup> [BUSI 240] | 3        |
| THEO 201 | 2        | CSCN 215  | 3        |
| CSCN 112 | 3        | CSCN 352  | 3        |
| CSCN 345 | 3        | CSCN 355  | 3        |
| MATH 250 | 3        | MATH 350  | 3        |
| CSER     | <u>0</u> | CSER  | <u>0</u> |
| Total    | 13       | Total   | 15       |

### JUNIOR YEAR

|  |          |                                   |          |
|--|----------|-----------------------------------|----------|
| Natural Science Elective <sup>1</sup> [PHYS 201] | 4        | BUSI 427                          | 3        |
| CSCN 340   | 3        | CSCN 310                          | 3        |
| CSCN 342   | 3        | CSCN 326                          | 3        |
| CSCN 375   | 3        | CSCN 471                          | 3        |
| MATH 211   | 3        | Lab Science Elective <sup>4</sup> | 4        |
| CSER   | <u>0</u> | CSER                              | <u>0</u> |
| Total  | 16       | Total                             | 16       |

### SENIOR YEAR

|                                 |          |   |          |
|---------------------------------|----------|---|----------|
| CSCN 315                        | 3        | THEO 202                                | 2        |
| CSCN 434                        | 3        | Critical Thinking Elective <sup>1</sup> | 3        |
| CSCN 443                        | 3        | Cultural Studies Elective <sup>1</sup>  | 3        |
| CSCN 481                        | 3        | CSCN 482                                | 3        |
| Technical Elective <sup>5</sup> | 4        | Technical Elective <sup>5</sup>         | 3        |
| CSER                            | <u>0</u> | CSER                                    | <u>0</u> |
| Total                           | 16       | Total                                   | 14       |

#### Notes

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<sup>3</sup>Any student entering the major directly into MATH 131 will require a 4 credit MATH Elective to substitute in place of MATH 128 (for example, MATH 132 may sub for credit)

<sup>4</sup>Choose any science course which includes a lab component. If choosing a Physics course, it must be PHYS 201 and 202L, or a higher level Physics course. PHYS 101 and 103 are not allowable.

<sup>5</sup>Choose from: BUSI 300, 301, 313, 424, 427, any 200-400 level Computer Science course, any 200-400 level Engineering course (except ENGR 210), or any Advanced Math course (must be MATH 132 or higher) not already required by the degree.